

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-III • EXAMINATION – SUMMER 2013****Subject Code: 132902****Date: 31-05-2013****Subject Name: Yarn Manufacturing-I****Time: 02.30 pm - 05.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain transfer of fibres from licker-in to cylinder and cylinder to doffer. **07**  
(b) Describe basic elements of a opening and cleaning machine with setting points. **07**

- Q.2** (a) Discuss general factors affecting opening, cleaning and loss of fibres. **07**  
(b) Describe roller doffing device. **07**

**OR**

- (b) Describe tandem carding. **07**

- Q.3** (a) What factors decide the optimum setting of a card? State card setting in correct sequence for cotton and polyester and discuss their effects on quality of card sliver. **14**

**OR**

- Q.3** (a) Describe parameters of card clothing for licker-in, cylinder and doffer. **07**  
(b) Describe continuous card feeding with basic elements, advantages and disadvantages. **07**

- Q.4** (a) Describe automatic bale opening machine. **07**  
(b) Describe construction and working of zone-II machine. **07**

**OR**

- Q.4** (a) Explain multifibre blending. **07**  
**Q.4** (b) Describe construction and working of any modern mixing machine. **07**

- Q.5** (a) Describe use of pre-carding and post carding elements on high production card. **07**  
(b) Describe construction and working of roller gin machine. **07**

**OR**

- Q.5** (a) Explain two point support, heel and toe arrangement for flat on card. **07**  
(b) Describe use of auto levelers on card. **07**

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